

**ABSTRACT OF THE DISCLOSURE**

Methods and systems for realizing accurate coordinate measurement using a multi-joint measuring arm. A system includes a support member, a multi-joint measuring arm having a first end attached to the support member and a second end at which a probe can be installed, and a processor configured to produce a three-dimensional coordinate corresponding to a position of the probe based on an angle of each joint of the measuring arm. A parameter concerning a posture of the measuring arm is detected exceeding a prescribed value, and a user is warned in accordance with a result of the detection. The prescribed value has been determined, for example, in accordance with a probability that a measurement error due to a user action pulling the measuring arm away from the support member becomes out of an allowable range.